

**DEVICES AND METHODS FOR OBTAINING MAMMARY FLUID  
SAMPLES FOR EVALUATING BREAST DISEASES,  
INCLUDING CANCER**

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## ABSTRACT OF THE DISCLOSURE

Biological samples of mammary fluid or components thereof are obtained using a breast pump device coupled with a solid phase sample collection medium, alternatively facilitated by administering oxytocin to the subject. The breast pump device stimulates expression of mammary fluid and provides for collection of diagnostic samples to evaluate breast disease, including cancer. The biological sample may include whole cells or cellular components, purified or bulk proteins, glycoproteins, peptides, nucleotides or other desired constituents comprising a breast disease marker. Methods, kits and adapter devices relating to the breast pump device are also provided. Yet additional methods, devices, accessories, and materials are provided for laboratory handling and processing of breast fluid samples and for related diagnostic methods.

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